

27 MARCH 1997



Operations

**ELECTRONIC WARFARE INTEGRATED
REPROGRAMMING**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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OPR: 18 OSS/OSP (Maj Gibbs)

Certified by: 18 OG/CC (Col Vanden Dries)

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This instruction implements AFD 10-7, *Command and Control Warfare*. This instruction outlines the responsibilities, alerting procedures, and reporting for Electronic Warfare Integrated Reprogramming (EWIR) in the event Serene Byte and Pacer Ware reprogramming is required in the 18th Wing. Throughout this instruction, Serene Byte/Pacer Ware reprogramming will frequently be referred to as "reprogramming". This instruction applies to all personnel assigned to the 18th Wing that participate in the reprogramming of electronic warfare systems. This instruction augments procedures outlined in

AFI 10-703, *Electronic Warfare Integrated Reprogramming*. This instruction does not apply to the Air National Guard or US Air Force Reserve.

SUMMARY OF REVISIONS

This revision incorporates procedures formerly published in 18 WG OI 21-129. It aligns procedures and clarifies responsibilities. A “[” indicates revised material since the last edition.

1. The 18th Communications Squadron (CS) will:

- 1.1. Upon receipt of Serene Byte/Pacer Ware message, immediately contact the 18th Wing Command Post Maintenance Operations Center (18 WG/CPM) and 18th Operational Support Squadron Weapons Tactics/Training Flight (18 OSS/OSP). Annotate name of the person and time contacted on the 18 CS Serene Byte/Pacer Ware After Action Worksheet (**Attachment 1**).
- 1.2. Maintain a letter from each squadron identifying personnel authorized to sign for classified reprogramming information.
- 1.3. Provide copies of “**SECRET**” messages and data disks to each affected squadron.
- 1.4. Upon request of deploying squadrons or direction from 18 OG/CC or 18 OSS/OSP, re-direct messages for deployed squadrons to the deployed 18 CS.

1.5. Complete an 18 CS Serene Byte/Pacer Ware After Action Worksheet ([Attachment 1](#)). Forward the completed report to 18 OSS/OSP within 24 hours of Implementation message receipt.

2. The deployed 18th Communications Squadron will:

2.1. Upon receipt of Serene Byte/Pacer Ware message, immediately contact the deployed 18 WG/CPM and deployed 18 OSS/OSP. Annotate name of the person and time contacted on the 18 CS Serene Byte/Pacer Ware After Action Worksheet ([Attachment 1](#)).

2.2. Maintain a deployable copy of letters from each squadron identifying personnel authorized to sign for classified reprogramming information.

2.3. Provide copies of "SECRET" messages and data disks to each affected squadron.

2.4. Complete an 18 CS Serene Byte/Pacer Ware After Action Worksheet ([Attachment 1](#)). Forward the completed report to 18 OSS/OSP within 24 hours of Implementation message receipt.

3. The 18 WG/CPM will:

3.1. Serve as the primary point of contact for reprogramming of the APR-39, ALE-45, ALR-56, M-130, ALQ-135, ALQ-144, and ALQ-184 systems.

3.2. Ensure personnel are properly trained on notification procedures.

3.3. Upon notification from 18 CS that Serene Byte/Pacer Ware message traffic has been received, notify each affected squadron production supervisor in accordance with (IAW) [Attachment 2](#). If applicable, notify the deployed 18 WG/CPM of all Serene Byte/Pacer Ware message traffic. Annotate the name(s) of the person(s) notified and time contacted on the Serene Byte/Pacer Ware After Action Worksheet ([Attachment 3](#)). Forward the completed report to 18 OSS/OSP within 24 hours.

4. The deployed 18 WG/CPM will:

4.1. Upon notification that Serene Byte/Pacer Ware message traffic was received, notify each squadron affected IAW [Attachment 2](#).

4.2. Confirm deployed 18 OSS/OSP has received notification of the Serene Byte/Pacer Ware reprogramming.

4.3. Complete a Squadron Serene Byte/Pacer Ware After Action Worksheet ([Attachment 3](#)). Forward the completed report to 18 OSS/OSP within 24 hours.

5. Each affected squadron will:

5.1. Appoint a primary and alternate Serene Byte/Pacer Ware monitor for each squadron.

5.2. Establish an account on the Multiservice Electronic Combat Bulletin Board System (MSECBBS) and assign a terminal area security officer (TASO) to monitor the squadron MSECBBS account.

5.3. Procure and maintain a 9600 bps or better STU-III for software download from the MSECBBS. Designate STU-III for MSECBBS use only.

5.4. Provide a letter to the 18 CS identifying personnel authorized to sign for classified reprogramming information. This letter will be updated and forwarded to the 18 CS at least quarterly.

5.5. Notify 18 CS of deployments and request re-direction of Serene Byte/Pacer Ware messages.

- 5.6. Ensure personnel are properly trained on all methods of reprogramming to include any alternate procedures to be followed during deployments.
- 5.7. Ensure programmer loader verifier-new technology (PLV-NT) equipment is operational and properly maintained.
- 5.8. Establish recall and notification procedures within the section to ensure qualified personnel will be available in the event reprogramming is required during other than normal duty hours.
- 5.9. Upon notification by the 18 WG/CPM, send a representative to the 18 CS to pick up messages.
- 5.10. When notified of a Serene Byte/Pacer Ware "alerting message," coordinate aircraft reprogramming priorities with the production superintendent.
- 5.11. Download software identified in the maintenance instruction message from the MSECBBBS. Make arrangements to receive data transfer via STU-III from alternate sources in the event data cannot be retrieved from the MSCEBBS.
- 5.12. When implementation orders are received, begin reprogramming immediately upon approval of 18 OG/CC.
- 5.13. Complete a Serene Byte/Pacer Ware After Action Worksheet ([Attachment 3](#)). Forward one copy to the 18 OSS/OSP within 24 hours of reprogramming completion and retain one copy for your records.

6. 18 OSS/OSP Responsibilities:

- 6.1. Notify 18 OSS/CC and 18 OG/CC of reprogramming activity.
- 6.2. Forward 18 OG/CC approval to reprogram to each affected squadron.
- 6.3. Submit a Unit Loading Message (ULM) IAW with AFI 10-703 within 72 hours of completion of the reprogramming. As a minimum, ULM will include the following.
- 6.4. The date and time of initial notification of Serene Byte/Pacer Ware activity.
- 6.5. Date, time, and method reprogramming data was received (AUTODIN, BBS, Airlift, US Mail, or Courier).
- 6.6. If reprogramming data was received by alternate method required and why.
- 6.7. Date and time reprogramming process started.
- 6.8. Date and time reprogramming process finished (including deployed aircraft).
- 6.9. Problems encountered during reprogramming.
- 6.10. Recommendations for improving reprogramming procedures.
- 6.11. All times must be in Zulu time.

JOHN R. BAKER, Brigadier General, USAF
Commander, 18th Wing

Attachment 1

18 CS

SERENE BYTE/PACER WARE AFTER ACTION WORKSHEET

1. Date/time each message received: Alerting: _____ SIM: _____ RIM: _____
Data: _____ MIM: _____ IMP: _____

2. Date/time 18 WG/CPM notified of each message: Alerting: _____ SIM: _____
RIM: _____ Data: _____ MIM: _____ IMP: _____

3. Individual at 18 WG/CPM notified of each message: Alerting: _____ SIM: _____
RIM: _____ Data: _____ MIM: _____ IMP: _____

Squadron (circle one): 12 FS 44 FS 67 FS 33 RQS 18 MXS

4. Date/time squadron picked up each message: Alerting: _____ SIM: _____
RIM: _____ Data: _____ MIM: _____ IMP: _____

5. Systems affected: _____

6. How was reprogramming data received? _____

7. Were any retransmissions requested? Yes / No
Date/time requested? _____
Date/time received? _____

8. Problems encountered during exercise:

9. Lessons learned/recommendations:

10. Name/Office Symbol/DSN number of Communications Serene Byte/Pacer Ware POC:

11. Include Serene Byte/Pacer Ware Message Delivery Register.

Attachment 2

AFFECTED SQUADRONS

This attachment will be utilized by the 18th Wing Command Post Maintenance Operations Center during all Serene Byte/Pacer Ware exercises to determine, by affected system(s), each squadron to be notified of the Serene Byte/Pacer Ware message.

If the message concerns:

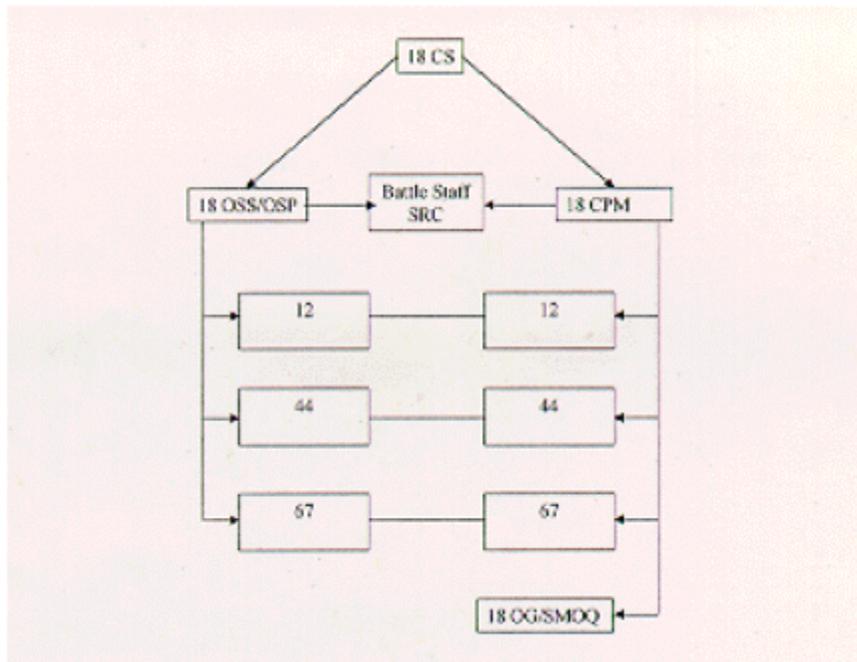
ALE-45
ALO-135
ALR-56

APR-39
M-130
ALO-144
ALO-184

Then notify:

18 MXS/LGMVA
12 FS
44 FS
67 FS
18 OG/SMOQ

18 MXS/LGMVE
33 RQS
18 OG/SMOQ



REPROGRAMMING COMMUNICATION FLOW

Attachment 3

SQUADRON SERENE BYTE/PACER WARE AFTER ACTION WORKSHEET

Squadron (circle one): 12 FS 44 FS 67 FS 33 RQS 18 MXS 18 WG/CPM

1. Date/time notified of each message: Alerting: SIM: RIM: Data: MIM: IMP:

2. Date/time squadron picked up each message: Alerting: SIM: RIM: Data: MIM: IMP:

3. Systems affected:

4. How was reprogramming data received?

5. Were any retransmissions requested? Yes / No Date/time requested? Date/time received?

6. Date/time of first and last aircraft/pod/equipment reprogramming:

Table with 5 columns: Started Serial #, Date/time, Completed Serial #, Date/time. Rows for First and Last.

7. Date/time last operational check completed (if required):

8. Problems Encountered:

9. Lessons learned/recommendations:

NOTE: Questions may not apply to all work centers.